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NOTICE OF ALLOWANCE AND FEE(S) DUE

52989 7590 10/28/2010

Dickinson Wright PLLC James E. Ledbetter, Esq. International Square

1875 Eye Street, N.W., Suite I200

Washington, DC 20006

EXAMINER
SAMS MATTHEW C

ART UNIT PAPER NUMBER

2617 DATE MAILED: 10/28/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/563,878	01/09/2006	Rahul Malik	L9289.05202	7288	

TITLE OF INVENTION: ACCESS POINT IN A WIRELESS NETWORK MEDIUM ACCESS CONTROL SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/28/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includired below or directed oth	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of n a) specifying a new corres	naintenance fees wi pondence address;	ill be and/or	mailed to the current (b) indicating a sepa	corresponde rate "FEE A	nce address as ADDRESS" for
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Dickinson Wrig James E. Ledbet International Squ	ter, Esq. nare		I her State addr trans	eby certify that this	· Feets	s) Transmittal is being ficient postage for first ISSUE FEE address 1) 273-2885, on the d	deposited v	vith the United in an envelope eing facsimile below.
1875 Eye Street, Washington, DC	N.W., Suite 1200							(Depositor's name)
washington, DC	20000							(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRM	ATION NO.
10/563,878	01/09/2006		Rahul Malik			L9289.05202	7:	288
			MEDIUM ACCESS CON					
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nonprovisional	NO	\$1510	\$300	\$0	\$0 \$1810		01/	28/2011
EXAM	INER	ART UNIT	CLASS-SUBCLASS					
SAMS, MA	TTHEW C	2617	370-334000					
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTOVSB/122) attached. "Fee Address" indication for "Fee Address" indication form PTOVSB/12; Rev 03-02 or more recent) attached. Use of a Custome Number is required.			or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attorney	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively. (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is lated, no name will be printed.				
PLEASE NOTE: Uni recordation as set forti (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee eletion of this form is NO	THE PATENT (print or typ data will appear on the p. T a substitute for filing an (B) RESIDENCE: (CTTY	atent. If an assigne assignment. and STATE OR Co	OUNT	RY)		
4a. The following fee(s)			p. Payment of Fee(s): (Plea					
Issue Fee		to a	A check is enclosed.	1 E PEO 2020				
□ Publication Fee (No small entity discount permitted) □ Advance Order - # of Copies □ Advance Order - # of Copies □ Overpayment, to Deposit Account Number (enclose an extra copy of					credit any of this form).			
5. Change in Entity Star a. Applicant claim	tus (from status indicate s SMALL ENTITY statu		b. Applicant is no long	ger claiming SMAL	LENT	TTY status. See 37 Cl	R 1.27(g)(2	().
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepted tes Patent and Trademark	d from anyone other than to Office.	he applicant; a regis	tered a	uttorney or agent; or th	e assignee o	r other party in
Authorized Signature				Date				
Typed or printed name	e		Registration No	D				
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10/563,878	01/09/2006	Rahul Malik	L9289.05202	7288			
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Dickinson Wright PLLC			SAMS, MATTHEW C				
James E. Ledbetter, Esq.			ART UNIT	PAPER NUMBER			
International Square			2617				
1875 Eve Street, N.W., Suite 1200			DAME MARKED TO TODO OOLO				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 755 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 755 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

Application No. Applicant(s) 10/563,878 MALIK ET AL. Notice of Allowability Examiner Art Unit MATTHEW SAMS 2617 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 9/23/2010. The allowed claim(s) is/are 33,35-38,40-47 and 49. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) 🔯 All 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance

/MATTHEW SAMS/ Examiner, Art Unit 2617

of Biological Material

9. ☐ Other .

Notice of Allowability

Application/Control Number: 10/563,878

Art Unit: 2617

Allowable Subject Matter

1. Claims 33, 35-38, 40-47 and 49 are allowed.

The following is an examiner's statement of reasons for allowance:

Applicant's independent claims recite, inter alia, a medium access control system in a wireless network, comprising an access point equipped with a space division multiple access compatible multi-beam antenna and a plurality of transceivers that can respectively be simultaneously connected to different antenna beams and transmit data using a superframe, and one or more stations spaced apart in a reception space of a wireless local area network, wherein the superframe has a timing structure comprising a periodically transmitted beacon frame transmitted by the access point that reports existence of a wireless network and provides a timing reference to each station on the network, a supervised access mode that is a period in which the access point multibeam antenna is configured in a directional pattern, the access point controls access to a wireless channel and adjusts transmission with a plurality of stations by utilizing multibeam antenna characteristics such that simultaneous transmissions with the plurality of stations can be implemented on a same wireless channel, and each station follows predetermined rules defined by the access point or by a network coordinator, an unsupervised access mode that is a period in which the access point multi-beam antenna is configured in an omni-directional pattern, and each station executes rulefree, contention based access to a wireless channel and signaling whereby the access point or terminates the supervised access mode or the unsupervised access mode, wherein the beacon frame provides each station with the multi-beam antenna Application/Control Number: 10/563,878

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characteristics of a directional pattern or omni-directional pattern, when the multi-beam antenna characteristic is the directional pattern, the unsupervised access mode is executed in order to detect a new station in the reception space and when the multi-beam antenna characteristic is the omni-directional pattern, the unsupervised access mode is executed in a case where a rogue station is detected in the reception space.

The closed prior art of record, Adachi and Gurbuz differs by not teaching the specifics regarding when using the directional antenna pattern, the unsupervised access mode being executed in order to detect a new station in reception space and when the antenna is an omni-directional pattern, the unsupervised access mode is used when a rogue station is detected.

Applicant's invention recites a particular combination that is neither taught nor suggested in the prior art. Applicant's invention is allowed for this reason and for the reasons stated by the Applicant in the responses filed on 1/9/2006, 10/29/2009, 3/29/2010 and 9/23/2010

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MATTHEW SAMS whose telephone number is (571)272-8099. The examiner can normally be reached on M-F 8-6.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on (571) 272-7922. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Patent Application Information Retrieval (PAIR) system. Status information for

Information regarding the status of an application may be obtained from the

Patent Application information Retrieval (PAIR) System. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MATTHEW SAMS/ Examiner, Art Unit 2617